

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Peter Thoma and Emmerich Mueller

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TITLE: LINEAR CAVITY TUNABLE LASER

Attorney Docket No.: 20 01 0575

Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

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February 12, 2002 (Date of Deposit).

Allison Berkman

Name

Allison Berkman
Signature

PRELIMINARY AMENDMENT

Dear Sir:

Please amend the application as follows:

In The Abstract

Please amend the abstract as follows:

A laser source includes a laser medium having a back facet and a front surface, whereby the laser medium is adapted to emit a laser beam through the front surface into an external cavity defined in length by a cavity end mirror reflecting the laser beam back towards the laser medium. A wavelength tunable filter is arranged between the laser medium and the cavity end mirror adapted for tuning the wavelength of the laser beam. The laser medium, the wavelength tunable filter, and the cavity end mirror are arranged in a spatially linear cavity

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structure substantially in a line without angular redirection of the laser beam in the cavity between the laser medium and the cavity end mirror. At least one portion of the laser beam within the cavity after passing the wavelength tunable filter and before again passing the laser medium is coupled out as an output beam of the laser source, and the cavity end mirror is provided to be partly transparent for coupling out a first output beam.

Remarks

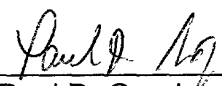
The Abstract of the Disclosure has been amended to eliminate reference numbers and to comply with MPEP 608.01(b).

Consideration and allowance of application is respectfully requested.

Attached hereto is a marked up version of the changes made to the specification by the current amendment. The attached page is captioned "Version With Markings to Show Changes Made."

Respectfully submitted,

2-11-02
Date



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In The Abstract

Please amend the abstract as follows:

A laser source [(10, 30, 40) comprising] ~~includes~~ a laser medium [(10)] having a back facet [(10B)] and a front surface [(10A)], whereby the laser medium [(10)] is adapted to emit a laser beam through the front surface into an external cavity defined in length by a cavity end mirror [(40)] reflecting the laser beam back towards the laser medium [(10)]. A wavelength tunable filter [(30)] is arranged between the laser medium [(10)] and the cavity end mirror [(40)] adapted for tuning the wavelength of the laser beam. The laser medium [(10)], the wavelength tunable filter [(30)], and the cavity end mirror [(40)] are arranged in a spatially linear cavity structure substantially in a line without angular redirection of the laser beam in the cavity between the laser medium [(10)] and the cavity end mirror [(40)]. At least one portion of the laser beam within the cavity after passing the wavelength tunable filter [(30)] and before again passing the laser medium [(10)] is coupled out as an output beam [(50)] of the laser source [(10, 30, 40)], and the cavity end mirror [(40)] is provided to be partly transparent for coupling out a first output beam [(50)].

[[Fig. 1 for publication]]